



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company



Job No.: CTCE/BBMP/W.No.13/PP/CEMENT/2013-14



Date: 04.04.2013

TEST REPORT

April-13

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. P. Prakash, Contractor, Bangalore.
NAME OF THE WORK	:	Providing RCC Drain and footpath to L/S. Mantapadha Road, in Ward No.13, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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AE Wardno-13

[Signature]

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀಕ್ಷಕರು

ಶಿಬಿರಕಲ್ಪ ಉಪವಿಭಾಗ, ವಾಣರಕಲ್ಪ ವಲಯ

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.



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Job No.: CTCE/BBMP/W.No.13/PP/SAND/2013-14



: 04.04.2013

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. P. Prakash, Contractor, Bangalore.

Name of Work : Providing RCC Drain and footpath to L/S. Mantapadha Road, in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 04.04.2013

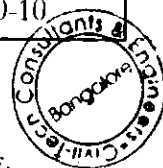
Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	192	9.60	14.70	85.3	75-100
1.18	525	26.25	40.95	59.1	55-90
600 Micron	357	17.85	58.80	41.2	35-59
300 Micron	442	22.10	80.90	19.1	8-30
150 Micron	339	16.95	97.85	2.1	0-10

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Job No.: CTCE/BBMP/W.No.13/PP/AGG/2013-14



: 04.04.2013

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. P. Prakash, Contractor, Bangalore.

Name of Work : Providing RCC Drain and footpath to L/S. Mantapadha Road, in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 04.04.2013

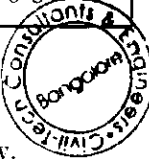
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **20000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	606	3.03	3.03	96.97	95-100
20	11748	58.74	61.77	38.23	30-70
10	5321	26.61	88.38	11.63	10-35
4.75	1983	9.92	98.29	1.71	0-5

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Job No.: CTCE/BBMP/W.No.13/PP/STEEL/2013-14

04.04.2013



TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. P. Prakash, Contractor, Bangalore.

Name of the work : Providing RCC Drain and footpath to L/S. Mantapadha Road, in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Test : 04.04.2013

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	546	12.90	O.K	O.K
2	10	0.62	513	550	13.35	O.K	O.K
3	12	0.89	515	554	13.60	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/PP/Pre slab/2013-14



09.04.2013

PRE CAST SLAB(CORE) TEST REPORT

Name of Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Name of Agency : Mr. P. Prakash, Contractor, Bangalore.

Name of work : Providing RCC Drain and footpath to L/S. Mantapadha Road, in Ward No.13, BBMP, Bangalore.

Referece : BBMP/AEE/SSD/DZ/PR/2012-13

No.of Sample Tested : 03

Date of Testing : 09.04.2013

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₂₀

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	80.00	0.399	2540.11	1.60	0.960	39.64	20.19	21.80	20.93	26.16
2	50.00	79.00	0.395	2546.48	1.58	0.960	40.25	20.50	22.14	21.25	26.57
3	50.00	78.00	0.380	2481.18	1.56	0.960	41.56	21.17	22.86	21.95	27.43

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ಬಿ.ಕೆ.ಎಸ್. ಪ್ರಾಂಶುಪಾಲಕರು
ಎಸ್.ಎಂ.ಎಸ್. ಪ್ರಾಂಶುಪಾಲಕರು, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.13/PP/CUBE/2013-14



05.05.2013

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. P. Prakash, Contractor, Bangalore.

Name of the work : Providing RCC Drain and footpath to L/S. Mantapadha Road, in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	07.04.2013	05.05.2013	8.260	506.5	22.51
2	07.04.2013	05.05.2013	8.369	517.3	22.99
3	07.04.2013	05.05.2013	8.495	524.8	23.32

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